AMENDMENTS TO THE CLAIMS

1-34. (Cancelled)

- 35. (currently amended) A transgenic plant comprising a nucleic acid encoding a microbial β -1,4-endoglucanase (EC 3.2.1.4), wherein said nucleic acid is stably integrated into a nuclear or plastid genome of the plant and is under the control of a promoter active in a plant, wherein the promoter determines a spatial or temporal expression pattern for the microbial β -1,4-endoglucanase.
- 36. (previously presented) The transgenic plant of claim 35, wherein the promoter is a wound inducible or a chemically-inducible promoter.
- 37. (previously presented) The transgenic plant of claim 36, wherein the chemically-inducible promoter is selected from the group consisting of a PR-1, PR-1a, PR-2, PR-3, PR-4, and PR-5 promoter.
- 38. (previously presented) The transgenic plant of claim 35, wherein the microbial β -1,4-endoglucanase is from a *Thermomonospora* bacterium.
- 39. (previously presented) The transgenic plant of claim 38, wherein the microbial β -1,4-endoglucanase is thermostable.
- 40. (previously presented) The transgenic plant of claim 38, where in the microbial β -1,4-endoglucanase is from *T. fusca*.
- 41. (currently amended) A transgenic seed comprising a nucleic acid encoding a microbial β -1,4-endoglucanase (EC 3.2.1.4), wherein said nucleic acid is stably integrated into a nuclear or plastid genome of the plant and is under the control of a promoter active in a plant, wherein the promoter determines a spatial or temporal

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expression pattern for the microbial β -1,4-endoglucanase obtained from the plant of claim 35.

- 42. (currently amended) A transgenic plant comprising a nucleic acid encoding a microbial β -1,4-endoglucanase (EC 3.2.1.4) and a vacuale targeting sequence, wherein the nucleic acid is stably integrated into a nuclear or plastid genome of the plant and is under control of a promoter active in a plant.
- 43. (currently amended) The transgenic plant of claim 42, wherein the promoter determines a spatial or temporal expression pattern for the microbial β -1,4-endoglucanase is a wound inducible or a chemically inducible promoter.
- 44. (currently amended) The transgenic plant of claim 43, wherein the promoter is a wound inducible or chemically inducible promoter the chemically inducible promoter is selected from the group consisting of a PR-1, PR-1a, PR-2, PR-3, PR-4, and PR-5 promoter.
- 45. (previously presented) The transgenic plant of claim 42, wherein the microbial β -1,4-endoglucanase is from a *Thermomonospora* bacterium.
- 46. (previously presented) The transgenic plant of claim 45, wherein the microbial β -1,4-endoglucanase is thermostable.
- 47. (previously presented) The transgenic plant of claim 45, where in the microbial β -1,4-endoglucanase is from *T. fusca*.
- 48. (currently amended) A transgenic seed comprising a nucleic acid encoding a microbial β -1,4-endoglucanase (EC 3.2.1.4) and a targeting sequence, wherein the nucleic acid is stably integrated into a nuclear or plastid genome of the plant and is under control of a promoter active in a plant obtained from the plant of claim 42.

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49. (new) The transgenic plant of claim 42, wherein the targeting sequence is a vacuole targeting sequence.

50. (new) The transgenic seed of claim 48, wherein the targeting sequence is a vacuole targeting sequence.